



Baroid

Environmental, Safety and Transportation Data Sheet

CAUSTIC SODA

I PRODUCT IDENTIFICATION		
SUPPLIER NL BAROID		TELEPHONE NO 713/987-5900
ADDRESS P.O. BOX 1675 HOUSTON, TEXAS 77251		
TRADE NAME CAUSTIC SODA		
GENERIC DESCRIPTION SODIUM HYDROXIDE, SODIUM HYDRATE, LYE, WHITE CAUSTIC		
II HAZARDOUS INGREDIENTS		
MATERIAL OR COMPONENT	%	HAZARD DATA
SODIUM HYDROXIDE	100	CORROSIVE, TLV: 2 MG/M ³
III PHYSICAL DATA		
BOILING POINT (°F) 2500	MELTING POINT 550	FREEZING POINT NA
SPECIFIC GRAVITY (H ₂ O = 1) 2.1	VAPOR PRESSURE (mm Hg) ≈ 0 mm	
VAPOR DENSITY (AIR = 1) NA	SOLUBILITY IN H ₂ O, % BY WT. 50	
% VOLATILES BY VOL. NA	EVAPORATION RATE (BUTYL ACETATE = 1) NA	
APPEARANCE AND ODOR WHITE POWDER, FLAKES OR LUMPS, NO ODOR	Density @ 20° C: ND	
PH ND		

NA = Not Applicable ND = Not Determined

It is the responsibility of the user to determine the safety and health of the product in use. The user should consult the Material Safety Data Sheet (MSDS) for the product and the Safety Data Sheet (SDS) for the product. The user should also consult the appropriate regulatory agencies for the product.

Sheet

FIRE AND EXPLOSION DATA

CAUSTIC SODA IS NOT FLAMMABLE OR COMBUSTIBLE.

EXTINGUISHING MEDIA: WATER

SPECIAL FIRE FIGHTING PROCEDURES: USE CARE NOT TO SPLATTER OR SPLASH THIS MATERIAL WHEN FLOODING WITH WATER, SINCE IT IS HARMFUL UPON CONTACT WITH SKIN.

HEALTH HAZARD INFORMATION

CARCINOGENICITY — NOT ON NTP, IARC OR OSHA LISTS

ACUTE ORAL LD ₅₀	>500mg/kg	ACUTE DERMAL LD ₅₀	500 mg/kg	AQUATIC TOXICITY (LC ₅₀)	700 ppm
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ROUTES OF EXPOSURE AND EFFECTS

INGESTION: BURNING IN MOUTH AND ESOPHAGUS, NAUSEA, VOMITING, STOMACH PAIN, DIARRHEA.

SKIN CONTACT: DEEP SKIN BURNS.

EYE CONTACT: BURNS, DAMAGE TO TISSUE.

INHALATION: IRRITATION OF RESPIRATORY TRACTS, INFLAMMATION OF THE LUNGS.

SODIUM HYDROXIDE TLV = 2 MG/M³

EMERGENCY AND FIRST AID PROCEDURES

IMMEDIATELY FLUSH SKIN WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES TO AVOID INJURY.

IRRIGATE EYES AT ONCE WITH LARGE QUANTITIES OF WARM WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN.

REMOVE ALL CONTAMINATED CLOTHING AND SHOWER.

IF SWALLOWED, GIVE PERSON LARGE AMOUNTS OF WATER. DO NOT INDUCE VOMITING. CONTACT PHYSICIAN.

MOVE PERSON TO FRESH AIR. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION.

BEST Sheet

VI REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

REACTS WITH WATER TO PRODUCE HEAT

INCOMPATIBILITY

ACIDS, METALS, EXPLOSIVES, ORGANIC PEROXIDES, WATER, EASILY IGNITABLE MATERIALS,
ORGANIC HALOGENS, ALUMINUM, TIN, ZINC, NITRO COMPOUNDS.

HAZARDOUS DECOMPOSITION PRODUCTS

NO

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

NONE

VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

FOR SOLID: SHOVEL INTO DRY CONTAINERS AND COVER. FLUSH SPILL AREA WITH WATER. DILUTE
WITH WATER AND NEUTRALIZE WITH 6M-HCL OR OTHER SUITABLE ACID.
FOR SOLUTION: TAKE UP WITH SAND OR OTHER NON COMBUSTIBLE ABSORBENT MATERIAL.
FLUSH AREA WITH WATER. RQ(EPA & DOT) 1000 lbs/454 kg.

NEUTRALIZING CHEMICALS

HCl, H₂SO₄

WASTE DISPOSAL METHOD

SEWER NEUTRALIZED SOLUTION. ANY RESIDUE FROM NEUTRALIZATION PROCESS SHOULD BE
DISCARDED IN A DESIGNATED LANDFILL

VIII INDUSTRIAL HYGIENE CONTROL MEASURES

VENTILATION REQUIREMENTS

GENERAL ROOM VENTILATION
USE LOCAL EXHAUST VENTILATION WHEN NECESSARY (SEE SECTION V) TO MAINTAIN BREATHING
ATMOSPHERE IN ACCORDANCE WITH TLV.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY

USE A NIOSH APPROVED MECHANICAL FILTER; FULL FACE PIECE

EYE

GOGGLES, FULL FACE SHIELD

GLOVES

RUBBER

OTHER CLOTHING AND EQUIPMENT

APRON, COVERALLS, BOOTS
EYE WASH AND SHOWER

TEST Sheet

SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS

AVOID BREATHING VAPOR.

AVOID CONTACT WITH EYES, SKIN, AND CLOTHING.

WASH THOROUGHLY AFTER HANDLING.

ALWAYS USE PROPER PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING CAUSTIC SODA.

OTHER HANDLING AND STORAGE REQUIREMENTS

PROTECT CONTAINER AGAINST PHYSICAL DAMAGE.

STORE IN A DRY PLACE, SINCE CAUSTIC SODA IS VERY HYDROSCOPIC.

KEEP SEPARATE FROM ACIDS, METALS, EXPLOSIVES, ORGANIC PEROXIDES, AND EASILY IGNITABLE MATERIALS.

DEPARTMENT OF TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: SODIUM HYDROXIDE, DRY, SOLID

HAZARD CLASS: CORROSIVE

HAZARDOUS SUBSTANCE: SODIUM HYDROXIDE